

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

## OM protein - protein search, using sw model

Run on: June 18, 2003, 17:14:36 ; Search time 83.0192 Seconds  
(without alignments)  
504.414 Million cell updates/sec

Title: US-09-807-933b-9

Perfect score: 2106 /  
Sequence: 1 MKFTVATISAVVALALSSA.....TFKEVTCFALETTRSGCERK 387

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

## Database :

Published Applications MA:  
1: /cgn2\_6/ptodata/2/pubpaa/US08\_NEM\_PUB.pep:\*  
2: /cgn2\_6/ptodata/2/pubpaa/PC7\_NEM\_PUB.pep:\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEM\_PUB.pep:\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEM\_PUB.pep:\*  
6: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*  
7: /cgn2\_6/ptodata/2/pubpaa/PC7US\_PUBCOMB.pep:\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09\_NEM\_PUB.pep:\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*  
11: /cgn2\_6/ptodata/2/pubpaa/US10\_NEM\_PUB.pep:\*  
12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep:\*  
13: /cgn2\_6/ptodata/2/pubpaa/US60\_NEM\_PUB.pep:\*  
14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	769.5	36.5	229	9	US-10-007-521-12
2	761.5	36.2	225	9	US-10-007-521-2
3	761.5	36.2	297	9	US-10-007-521-4
4	761.5	36.2	308	9	US-10-007-521-6
5	760.5	36.1	201	9	US-09-261-329-4
6	754.5	35.8	201	9	US-09-261-329-5
7	753.5	35.8	205	9	US-09-261-329-7
8	735	34.9	349	9	US-10-007-521-10
9	722.5	34.3	203	9	US-09-261-329-9
10	722.5	34.3	222	9	US-10-007-521-14
11	722.5	34.3	294	9	US-10-007-521-24
12	714	33.9	376	10	US-09-735-787-4
13	711	33.8	305	10	US-09-735-787-2
14	710	33.7	202	9	US-09-261-329-1
15	708.5	33.6	203	9	US-09-261-329-6
16	703.5	33.4	226	9	US-10-007-521-16
17	703.5	33.4	293	9	US-10-007-521-20
18	703.5	33.4	298	9	US-10-007-521-18
19	699	33.2	310	9	US-10-007-521-22

20	698.5	33.2	203	9	US-09-261-329-8	Sequence 8, Appli
21	693.5	32.9	235	1	US-08-841-636A-31	Sequence 31, Appli
22	693	32.9	202	9	US-09-261-329-3	Sequence 3, Appli
23	684.5	32.5	295	9	US-10-007-521-8	Sequence 8, Appli
24	678	32.2	202	9	US-09-261-329-2	Sequence 2, Appli
25	519.5	24.7	211	9	US-09-261-329-11	Sequence 11, Appli
26	503.5	23.9	235	9	US-09-261-329-10	Sequence 10, Appli
27	438	20.8	138	9	US-10-007-521-26	Sequence 26, Appli
28	255.5	12.1	2033	9	US-10-123-155-307	Sequence 307, App
29	255	12.1	2916	9	US-10-123-155-69	Sequence 69, Appli
30	252	12.0	3552	9	US-10-123-155-339	Sequence 339, App
31	248.5	11.8	2750	9	US-10-123-155-85	Sequence 85, Appli
32	246	11.7	4060	9	US-10-123-155-197	Sequence 197, App
33	245.5	11.7	3127	9	US-10-184-644-83	Sequence 83, Appli
34	245.5	11.7	3127	9	US-10-184-644-83	Sequence 83, Appli
35	245.5	11.7	3871	9	US-10-184-644-347	Sequence 347, App
36	245.5	11.7	3871	9	US-10-184-644-347	Sequence 347, App
37	241.5	11.5	2213	9	US-10-184-644-549	Sequence 549, App
38	241.5	11.5	2213	9	US-10-184-644-549	Sequence 549, App
39	240	11.4	4374	9	US-10-123-155-125	Sequence 125, App
40	238.5	11.3	2027	9	US-10-123-155-175	Sequence 175, App
41	238.5	11.3	2906	9	US-10-123-155-367	Sequence 367, App
42	238.5	11.3	2917	9	US-10-123-155-343	Sequence 343, App
43	238.5	11.3	3732	9	US-10-123-155-71	Sequence 71, Appli
44	238	11.3	1636	9	US-10-123-155-133	Sequence 133, App
45	238	11.3	2531	9	US-10-123-155-33	Sequence 33, Appli

## ALIGNMENTS

## RESULT 1

US-10-007-521-12  
Sequence 12, Application US/10007521  
Publication No. US20030054539A1

## GENERAL INFORMATION:

APPLICANT: Schuelein, Martin

Lassen, Soren N.

Kauppinen, Markus S.

Lange, Lene

Nielsen, Ruby I.

Ihara, Michiko

Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglycanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESSES:

ADDRESS: No. US20030054539A10 NO. US20030054539A1disk of NO. US200300545

STREET: 405 Lexington Avenue, 64th Floor

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/007,521

FILING DATE: 10-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366,200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 12:



MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-10-007-521-4

Query Match 36.2%; Score 761.5; DB 9; Length 297;  
Best Local Similarity 62.1%; Pred. No. 3.8e-43;  
Matches 128; Conservative 32; Mismatches 43; Indels 3; Gaps 3;

183 SSGSSTRYMDCCASGMPKASVTGPVDTCAISGLD-ANAGSCN-GGNGFMCNN 240  
DB 21 SGIGQTRRYMDCCKPSCKMPGKGP-SSPVQACDKNDPLNDGSTRSGCDAGGSAYMCSS 79  
QY 241 NQPAVNDLAYGPAASIASNSNAGWCCGCELTFTTSGAASGKKMYYQVNTTGGDLGSN 300  
DB 80 QSPMAVSDSLSYGMAAYKLAGSSSEOWCCACCELTFTTSGVPAKGKMTYQATNTGGDLGDN 139  
QY 301 HFDLQMPGGVGIENGCAQMGAPNDGKARYGVSSVSDCASLPSALQACKKRFNMF 360  
DB 140 HFDLAIPEGGVGINACTDQYGAPNMGDRYGGIHSKECESFPEALKPGCNRFDMFQ 199  
QY 361 NSDNPMTFKEVTCPAELTTRSGCER 386  
DB 200 NADNPSTVTFQEVACPSELTSKSGCSR 225

## RESULT 4

US-10-007-521-6  
Sequence 6, Application US/10007521  
Publication No. US20030054539A1

## GENERAL INFORMATION:

APPLICANT: Schuelein, Martin

Andersen, Lene N.

Larsen, Soren F.

Kauppinen, Markus S.

Lange, Lene

Nielsen, Rudy I.

Ihara, Michiko

Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1el Endoglycanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESS:

ADDRESSSEE: No. US20030054539A1o No. US20030054539A1disk of No. US200300545

STREET: 405 Lexington Avenue, 64th Floor

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.10

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/007,521

FILING DATE: 10-Dec-2001

CLASSIFICATION: &lt;Unknown&gt;

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Lambirth, Elias J.

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 308 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-10-007-521-6

Query Match 36.2%; Score 761.5; DB 9; Length 308;  
Best Local Similarity 62.1%; Pred. No. 4e-43;  
Matches 128; Conservative 32; Mismatches 43; Indels 3; Gaps 3;

183 SSGSSTRYMDCCASGMPKASVTGPVDTCAISGLD-ANAGSCN-GGNGFMCNN 240  
DB 21 SGIGQTRRYMDCCKPSCKMPGKGP-SSPVQACDKNDPLNDGSTRSGCDAGGSAYMCSS 79  
QY 241 NQPAVNDLAYGPAASIASNSNAGWCCGCELTFTTSGAASGKKMYYQVNTTGGDLGSN 300  
DB 80 QSPMAVSDSLSYGMAAYKLAGSSSEOWCCACCELTFTTSGVPAKGKMTYQATNTGGDLGDN 139  
QY 301 HFDLQMPGGVGIENGCAQMGAPNDGKARYGVSSVSDCASLPSALQACKKRFNMF 360  
DB 140 HFDLAIPEGGVGINACTDQYGAPNMGDRYGGIHSKECESFPEALKPGCNRFDMFQ 199  
QY 361 NSDNPMTFKEVTCPAELTTRSGCER 386  
DB 200 NADNPSTVTFQEVACPSELTSKSGCSR 225

## RESULT 5

US-09-261-329-4  
Sequence 4, Application US/09261329  
Publication No. US20030092097A1

## GENERAL INFORMATION:

APPLICANT: Andersen, Kim

APPLICANT: Schuelein, Martin

APPLICANT: Christiansen, Lars

APPLICANT: Damgaard, Bo

APPLICANT: Von Der Osten, Claus

TITLE OF INVENTION: Cellulase Variants

FILE REFERENCE: 4887.204-US

CURRENT APPLICATION NUMBER: US/09/261,329

CURRENT FILING DATE: 1999-03-03

EARLIER APPLICATION NUMBER: 1013/96

EARLIER FILING DATE: 1996-09-17

NUMBER OF SEQ ID NOS: 26

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 4

LENGTH: 201

TYPE: PRT

ORGANISM: Cellulase variants

US-09-261-329-4

Query Match 36.1%; Score 760.5; DB 9; Length 201;  
Best Local Similarity 63.7%; Pred. No. 3e-43;  
Matches 130; Conservative 29; Mismatches 40; Indels 5; Gaps 2;

184 SSGSSTRYMDCCASGMPKASVTGPVDTCAISGLD-ANAGSCN-GGNGFMCNN 243  
DB 1 GSGKSTRYMDCCKPSCKMPGKGP-SSPVQACDKNDPLNDGSTRSGCDAGGSAYMCSS 60  
QY 244 WAVNDELAYGPAASIASNSNAGWCCGCELTFTTSGAASGKKMYYQVNTTGGDLGSNFD 303  
DB 61 WAVNDELAYGPAATKLSGCTSSWCCACTALTFTTSGVSGKTLVVOSTSGDLGSNFD 120  
QY 304 LQMPGGVGIENGCAQMGAPNDGKARYGVSSVSDCASLPSALQACKKRFNMF 362  
DB 121 LQMPGGVGIENGCAQMGAPNDGKARYGVSSVSDCASLPSALQACKKRFNMF 176  
QY 363 DNPMTFKEVTCPAELTTRSGCER 386  
DB 177 DNPMTFKEVTCPAELTTRSGCER 200

## RESULT 6

US-09-261-329-5  
Sequence 5, Application US/09261329  
Publication No. US20030092097A1

## GENERAL INFORMATION:

/ APPLICANT: Andersen, Kim  
 / APPLICANT: Schulten, Martin  
 / APPLICANT: Christiansen, Lars  
 / APPLICANT: Damgaard, Bo  
 / APPLICANT: Von Der Oelen, Claus  
 / TITLE OF INVENTION: Cellulase Variants  
 / FILE REFERENCE: 4887,204-US  
 / CURRENT APPLICATION NUMBER: US/09/261,329  
 / EARLIER FILING DATE: 1999-03-03  
 / EARLIER APPLICATION NUMBER: 1013/96  
 / NUMBER OF SEQ ID NOS: 26  
 / SOFTWARE: FastSeq for Windows Version 3.0  
 / SEQ ID NO 5  
 / LENGTH: 201  
 / TYPE: PRT  
 / ORGANISM: Cellulase variants  
 US-09-261-329-5

Query Match 35.8%; Score 754.5; DB 9; Length 201;  
 Best Local Similarity 63.7%; Pred. No. 7,6e-43;  
 Matches 130; Conservative 28; Mismatches 41; Indels 5; Gaps 2;

QY 184 GSGSTRYMDCCASGSMGKASVTPVDTCAISGLDANAOSGCGNGMFCNNOP 243  
 DB 1 GSGSTRYMDCCASGSMGKASVTPVDTCAISGLDANAOSGCGNGMFCNNOP 60  
 QY 244 WAWNDLAVGPAALASISNEAGWCCGCELTFTSGAASGKMMVVOVTNTGDDLSNHP 303  
 DB 61 WAWNDLAVGPAALASISNEAGWCCGCELTFTSGAASGKMMVVOVTNTGDDLSNHP 120  
 QY 304 LQMGGGVGIENGCAQWGA-PNDGMRVGVSVSDCASLPSALQAGCKMRFNMFKN 362  
 DB 121 LAMGGGVGIENGCSQFGLP---GAOYGISSDQCSFAPLKGCCMRFPDQMA 176  
 QY 363 DNPMTKEVTCPAELTTRSGCER 386  
 DB 177 DNPMTKEVTCPAELTTRSGCER 200

RESULT 7  
 US-09-261-329-7  
 / Sequence 7, Application US/09261329  
 / Publication No. US2003092097A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Andersen, Kim  
 / APPLICANT: Schulten, Martin  
 / APPLICANT: Christiansen, Lars  
 / APPLICANT: Damgaard, Bo  
 / APPLICANT: Von Der Oelen, Claus  
 / TITLE OF INVENTION: Cellulase Variants  
 / FILE REFERENCE: 4887,204-US  
 / CURRENT APPLICATION NUMBER: US/09/261,329  
 / EARLIER FILING DATE: 1999-03-03  
 / EARLIER APPLICATION NUMBER: 1013/96  
 / NUMBER OF SEQ ID NOS: 26  
 / SOFTWARE: FastSeq for Windows Version 3.0  
 / SEQ ID NO 7  
 / LENGTH: 205  
 / TYPE: PRT  
 / ORGANISM: Cellulase variants  
 US-09-261-329-7

Query Match 35.8%; Score 753.5; DB 9; Length 205;  
 Best Local Similarity 61.5%; Pred. No. 9e-43;  
 Matches 126; Conservative 32; Mismatches 44; Indels 3; Gaps 3;

QY 184 GSGSTRYMDCCASGSMGKASVTPVDTCAISGLDANAOSGCGNGMFCNNOP 241  
 DB 1 GSGSTRYMDCCASGSMGKASVTPVDTCAISGLDANAOSGCGNGMFCNNOP 59  
 QY 242 QPWAUNDLAVGPAALASISNEAGWCCGCELTFTTSGAASGKMMVVOVTNTGDDLSNHP 301

DB 60 SPWASDLSYGAWAAVKLAGSSESQWCCACCELTFTSGPAGKMKMVOATNTGDLGDNH 119  
 QY 302 FDLQPGGVGIFNGCAQWGA-PNDGMRVGVSVSDCASLPSALQAGCKMRFNMFKN 361  
 DB 120 FDLQPGGVGIFNGCAQWGA-PNDGMRVGVSVSDCASLPSALQAGCKMRFNMFKN 179  
 QY 362 DNPMTKEVTCPAELTTRSGCER 386  
 DB 180 DNPMTKEVTCPAELTTRSGCER 204

RESULT 8  
 US-10-007-521-10  
 / Sequence 10, Application US/10007521  
 / Publication No. US20030054539A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Schulten, Martin  
 / APPLICANT: Andersen, Lene N.  
 / APPLICANT: Lassen, Soren F.  
 / APPLICANT: Kauppinen, Markus S.  
 / APPLICANT: Lange, Lene  
 / APPLICANT: Nielsen, Ruby I.  
 / APPLICANT: Thara, Michiko  
 / APPLICANT: Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1el Endoglucanases  
 NUMBER OF SEQUENCES: 109  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US200300545  
 STREET: 405 Lexington Avenue, 64th Floor  
 CITY: New York  
 STATE: New York  
 COUNTRY: United States of America  
 ZIP: 10174-6401  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/007,521  
 FILING DATE: 10-Dec-2001  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/651,136  
 FILING DATE: 21-MAY-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lambiris, Elias J.  
 REGISTRATION/DOCKET NUMBER: 33,728  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 212-867-0123  
 TELEFAX: 212-878-9655  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 349 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
 US-10-007-521-10

Query Match 34.3%; Score 735; DB 9; Length 349;  
 Best Local Similarity 61.7%; Pred. No. 2,5e-41;  
 Matches 127; Conservative 27; Mismatches 46; Indels 6; Gaps 2;

QY 183 GSGSTRYMDCCASGSMGKASVTPVDTCAISGLDANAOSGCGNGMFCNNOP 242  
 DB 22 SKGHTTRYMDCCKTSCAMGKASVBPVLICNKNQDPIVDANARSGCGGAFACNTNS 81  
 QY 243 PPAWUNDLAVGPAALASISNEAGWCCGCELTFTSGAASGKMMVVOVTNTGDDLSNHP 302  
 DB 82 PPAWUNDLAVGPAALASISNEAGWCCGCELTFTTSGPAGKMKMVOATNTGDLGDNH 141

RESULT 11  
US-10-007-521-24  
Sequence 24, Application US/10007521  
Publication No. US20030054539A1  
GENERAL INFORMATION:  
APPLICANT: Schlein, Martin  
Andersen, Lene N.  
Lassen, Soren F.  
Kauppinen, Markus S.  
Lange, Lene  
Nielsen, Ruby I.  
Ihara, Michiko  
Takagi, Shinobu  
TITLE OF INVENTION: No. US20030054539A1el Endoglucanases  
NUMBER OF SEQUENCES: 109  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. US20030054539A1o No. US20030054539A1dlbk of No. US20030054539A1  
STREET: 405 Lexington Avenue, 64th Floor  
CITY: New York  
STATE: New York

COUNTRY: United States of America  
ZIP: 10174-6401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/007,521  
FILING DATE: 10-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/651,136  
FILING DATE: 21-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4366,200-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 24:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 294 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 24:  
US-10-007-521-24

Query Match 34.3%, Score 722.5, DB 9, Length 294;  
Best Local Similarity 60.3%, Pred. No. 1,4e-40;  
Matches 126; Conservative 26; Mismatches 42; Indels 15; Gaps 3;

QY 185 SSSITRYDCCKASGMPGKASYGVPDYTCASNGISLIDANAO-----SGCNGSGFM 237  
DB 21 SSVITRYDCCKASGMPGKASYGVPDYTCASNGISLIDANAO-----NAQTPSDILKSCDGGSAVY 74

QY 238 CANNOPWAVNDELAYGFAAASIGSNAGWCCGCYELFTPSGAASGKRVQVNTGSD 297  
DB 75 CNGOPWAVNDSISYGFPAAKLSKQETDCCGCTYLTSTYVSGKMTVQITNTGSD 134

QY 298 GSNHFDLQPGGCGVIGFNGCAQMGAPNDGMAKRYGVSSVSDCASLPSALQAGCKRN 357  
DB 135 GNNHFDLAMPGGGVIPIFGSCSKMNGIN--LGNQYGGFTDRSQCATLPSKQWASCNWRFD 192

QY 358 WFKNSDNPMTFKVETCPAELITRSGCR 386  
DB 193 WFNADNPVMEPVTCFOELVARTGCSR 221

RESULT 12  
US-09-735-787-4  
Sequence 4, Application US/09735787  
Patent No. US20010036910A1  
GENERAL INFORMATION:  
APPLICANT: Rasmussen, Grethe  
Mikkelsen, Jan Moller  
Schulein, Martin  
Patzar, Shankant A.  
Hagen, Fred  
TITLE OF INVENTION: A Cellulase Preparation Comprising an  
Endoglucanase Enzyme  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSER: No. US20010036910A1 No. US20010036910A1disk of No. US200100369  
STREET: 405 Lexington Avenue, 64th Floor  
CITY: New York  
STATE: New York  
COUNTRY: United States of America  
ZIP: 10174-6401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/735,787  
FILING DATE: 13-Dec-1997  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/189,028  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 3469,214-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 376 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-09-735-787-4

Query Match 33.9%, Score 714, DB 10, Length 376;  
Best Local Similarity 59.1%, Pred. No. 6,6e-40;  
Matches 127; Conservative 26; Mismatches 58; Indels 4; Gaps 3;

QY 173 AGXYISGGKSGSSITRYDCCKASGMPGKASYGVPDYTCASNGISLIDANQSGC-N 231  
DB 10 AGFLAVSAA-SGSSGSTRYDCCKSPSCSWGKAAVAPALTDCKNDINISNTNANVNCCEG 68

QY 232 GNGGFCNNOPWAVNDELAYGFAAASIGSNAGWCCGCYELFTPSGAASGKRVQVNT 291  
DB 69 GGSAAVACNYSWAVNDELAYGFAATKISGGSFASVCCACVATLFTTGPVAGKMTVOST 128

QY 292 NNGGGLGSHFPLQMPGCGVIGFNGCAQMGAPNDGMAKRYGVSSVSDCASLPSALQAG 351  
DB 129 NNGGGLGSHFPLQMPGCGVIGFNGCAQMGAPNDGMAKRYGVSSVSDCASLPSALQAG 186

QY 352 CKRNFNPNNDNPMTFKVETCPAELITRSGCR 386  
DB 187 CHMRFDWPNADNPDPFEGVQCPKALDISGCKR 221

RESULT 13  
US-09-735-787-2  
Sequence 2, Application US/09735787  
Patent No. US20010036910A1  
GENERAL INFORMATION:  
APPLICANT: Rasmussen, Grethe  
Mikkelsen, Jan Moller  
Schulein, Martin  
Patzar, Shankant A.  
Hagen, Fred  
TITLE OF INVENTION: A Cellulase Preparation Comprising an  
Endoglucanase Enzyme  
NUMBER OF SEQUENCES: 33  
CORRESPONDENCE ADDRESS:  
ADDRESSER: No. US20010036910A1 No. US20010036910A1disk of No. US200100369  
STREET: 405 Lexington Avenue, 64th Floor  
CITY: New York  
STATE: New York  
COUNTRY: United States of America  
ZIP: 10174-6401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:



APPLICATION NUMBER: US/09/735,787  
FILING DATE: 13-Dec-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/189,028  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 3469,214-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 305 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-735-787-2

Query Match 33.8%; Score 711; DB 10; Length 305;  
Best Local Similarity 61.2%; Pred. No. 8.5e-40;  
Matches 126; Conservative 26; Mismatches 48; Indels 6; Gaps 3;

QY 183 GSGSTRYWDCCCKASGMPKASVTGPVDTCAISGLLDANQSGN-GGNGFMCNN 241  
DB 21 AADRSTRYWDCCCKPSCGMAKAPVNOVFSCNAPFORITPDASGCEPGVAASCADQ 80  
QY 242 QPMAVNDLAYFPAASIASGNEAGMCCGYELFTTSGAASGKXVVVVTNTGDLGSNH 301  
DB 81 TPMVNDPFLGFAATSIAGSNEAGMCCACYEITTSFPAVKXKVVSSTGDLGSNH 140  
QY 302 FDLMPGGGVI FNGCAQWGA-PNDGWARVGVSVSDCASLPSALQAGCKMRFNF 360  
DB 141 FDLNIPGGGVI FPDCTPQFGLP---GQRYGISISNRCRFPDALKPGCYRFPWF 196  
QY 361 NSDNPMTFKEVTCPAELTTRSGCER 386  
DB 197 NADNPSFSFROVQCPAELVARTGCR 222

RESULT 14  
US-09-261-329-1  
Sequence 1, Application US/09261329  
Publication No. US20030092097A1  
GENERAL INFORMATION:  
APPLICANT: Andersen, Kim  
APPLICANT: Schulten, Martin  
APPLICANT: Christiansen, Lars  
APPLICANT: Damgaard, Bo  
TITLE OF INVENTION: Cellulase Variants  
FILE REFERENCE: 4887,204-US  
CURRENT FILING DATE: 1999-03-03  
EARLIER APPLICATION NUMBER: 1013/96  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO: 1  
LENGTH: 202  
TYPE: PRT  
ORGANISM: Cellulase variants  
US-09-261-329-1

Query Match 33.7%; Score 710; DB 9; Length 202;  
Best Local Similarity 62.1%; Pred. No. 6.6e-40;  
Matches 126; Conservative 25; Mismatches 46; Indels 6; Gaps 3;  
QY 186 GSTRYWDCCCKASGMPKASVTGPVDTCAISGLLDANQSGN-GGNGFMCNN 244  
DB 21 AADRSTRYWDCCCKPSCGMAKAPVNOVFSCNAPFORITPDASGCEPGVAASCADQ 80

DB 3 GRSTRYWDCCCKPSCGMAKAPVNOVFSCNAPFORITPDASGCEPGVAASCADQTPW 62  
QY 245 AVNDELAYGFAAASIASGNEAGMCCGYELFTTSGAASGKXVVVVTNTGDLGSNFDL 304  
DB 63 AVNDPFLGFAATSIAGSNEAGMCCACYEITTSFPAVKXKVVSSTGDLGSNFDL 122  
QY 305 QMPGGGVI FNGCAQWGA-PNDGWARVGVSVSDCASLPSALQAGCKMRFNF 363  
DB 123 NIPGGGVI FPDCTPQFGLP---GQRYGISISNRCRFPDALKPGCYRFPWF 178  
QY 364 NPTMTFKEVTCPAELTTRSGCER 386  
DB 179 NPSFSFROVQCPAELVARTGCR 201

RESULT 15  
US-09-261-329-6  
Sequence 6, Application US/09261329  
Publication No. US20030092097A1  
GENERAL INFORMATION:  
APPLICANT: Andersen, Kim  
APPLICANT: Schulten, Martin  
APPLICANT: Christiansen, Lars  
APPLICANT: Damgaard, Bo  
TITLE OF INVENTION: Cellulase Variants  
FILE REFERENCE: 4887,204-US  
CURRENT FILING DATE: 1999-03-03  
EARLIER APPLICATION NUMBER: 1013/96  
NUMBER OF SEQ ID NOS: 26  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO: 6  
LENGTH: 203  
TYPE: PRT  
ORGANISM: Cellulase variants  
US-09-261-329-6

Query Match 33.6%; Score 708.5; DB 9; Length 203;  
Best Local Similarity 60.3%; Pred. No. 8.3e-40;  
Matches 123; Conservative 25; Mismatches 53; Indels 3; Gaps 2;

QY 184 GSGSTRYWDCCCKASGMPKASVTGPVDTCAISGLLDANQSGN-GGNGFMCNN 242  
DB 1 GSGSTRYWDCCCKPSCGMAKAPVNOVFSCNAPFORITPDASGCEPGVAASCADQ 80  
QY 243 PMAVNDLAYGFAAASIASGNEAGMCCGYELFTTSGAASGKXVVVVTNTGDLGSNH 302  
DB 61 PMAVNDLAYGFAATSIAGSNEAGMCCACYEITTSFPAVKXKVVSSTGDLGSNH 120  
QY 303 DLMPPGGGVI FNGCAQWGA-PNDGWARVGVSVSDCASLPSALQAGCKMRFNF 362  
DB 121 DLMPPGGGVI FPDCTPQFGLP---GQRYGISISNRCRFPDALKPGCYRFPWF 178  
QY 363 DNPMTFKEVTCPAELTTRSGCER 386  
DB 179 DNPMTFKEVTCPAELTTRSGCER 202

Search completed: June 18, 2003, 17:44:44  
Job time: 84.0192 secs

**THIS PAGE BLANK (USPTO)**